

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical
Information Center (STIC) no errors detected.

Application Serial Number: 10/502,359
Source: PCT
Date Processed by STIC: 3/7/05

ENTERED



PCT

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/502,359

DATE: 03/07/2005

TIME: 12:50:45

Input Set : A:\033644-003.txt

Output Set: N:\CRF4\03072005\J502359.raw

```

4 <110> APPLICANT: Sanchez, Luis Enjuanes
6 <120> TITLE OF INVENTION: Nucleic Acid Sequence That Includes the RNA Encapsidation
7   Signal of a Group 1 Coronavirus and its Applications
9 <130> FILE REFERENCE: 033644-003
11 <140> CURRENT APPLICATION NUMBER: US 10/502,359
12 <141> CURRENT FILING DATE: 2004-07-23
14 <150> PRIOR APPLICATION NUMBER: PCT/ES03/00038
15 <151> PRIOR FILING DATE: 2003-01-24
17 <150> PRIOR APPLICATION NUMBER: ES P200200158
18 <151> PRIOR FILING DATE: 2002-01-24
20 <160> NUMBER OF SEQ ID NOS: 26
22 <170> SOFTWARE: FastSEQ for Windows Version 4.0
24 <210> SEQ ID NO: 1
25 <211> LENGTH: 550
26 <212> TYPE: DNA
27 <213> ORGANISM: Porcine transmissible gastroenteritis virus (TGEV)
29 <400> SEQUENCE: 1
30 gaaatatttg tctttctatg aaatcataga ggacaagcgt tgattatttc cattcagttt 60
31 ggcaatcact ccttggaacg gggttgagcg aacgggtgcag taggggtccg tccctatttc 120
32 gtaagtgcgc tagtagtagc gagtgcggtt cgcgccgtac aacggtgggt agaccgggtt 180
33 cgtcctgtg atctccctcg ccggccgcca ggagaatgag ttccaaacaa ttcaagatcc 240
34 ttgttaatga ggactatcaa gtcaacgtgc ctagtcttcc tattcgtgac gtgttacagg 300
35 aaattaagta ctgctaccgt aatggatttg agggctatgt ttctgtacca gaatactgtc 360
36 gtgacctagt tgattgcgat cgtaaggatc actacgtcat tgggtgttctt ggtaacggag 420
37 taagtgatct taaacctgtt cttcttaccg aacctccgt catgttgcaa ggctttattg 480
38 ttagagctaa ctgcaatggc gttcttgagg actttgacct taaaattgct cgcactggca 540
39 gaggtgccat                                     550
41 <210> SEQ ID NO: 2
42 <211> LENGTH: 31
43 <212> TYPE: DNA
44 <213> ORGANISM: Artificial Sequence
46 <220> FEATURE:
47 <223> OTHER INFORMATION: GUS oligonucleotide
49 <400> SEQUENCE: 2
50 gaccacact ttgccgtaat gagtgaccgc a                                     31
52 <210> SEQ ID NO: 3
53 <211> LENGTH: 23
54 <212> TYPE: DNA
55 <213> ORGANISM: Artificial Sequence
57 <220> FEATURE:
58 <223> OTHER INFORMATION: GUS 297 oligonucleotide
60 <400> SEQUENCE: 3
61 gaccacact ttgccgtaat gag                                     23

```

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/502,359

DATE: 03/07/2005

TIME: 12:50:45

Input Set : A:\033644-003.txt

Output Set: N:\CRF4\03072005\J502359.raw

```

63 <210> SEQ ID NO: 4
64 <211> LENGTH: 26
65 <212> TYPE: DNA
66 <213> ORGANISM: Artificial Sequence
68 <220> FEATURE:
69 <223> OTHER INFORMATION: leader oligonucleotide
71 <400> SEQUENCE: 4
72 agattttgtc ttccgacacc aactcg                26
74 <210> SEQ ID NO: 5
75 <211> LENGTH: 19
76 <212> TYPE: DNA
77 <213> ORGANISM: Artificial Sequence
79 <220> FEATURE:
80 <223> OTHER INFORMATION: oligonucleotide 336
82 <400> SEQUENCE: 5
83 cttgatgcac taacttctg                19
85 <210> SEQ ID NO: 6
86 <211> LENGTH: 24
87 <212> TYPE: DNA
88 <213> ORGANISM: Artificial Sequence
90 <220> FEATURE:
91 <223> OTHER INFORMATION: oligonucleotide 1.7
93 <400> SEQUENCE: 6
94 caggatcctg tagacaagtg tgtg                24
96 <210> SEQ ID NO: 7
97 <211> LENGTH: 29
98 <212> TYPE: DNA
99 <213> ORGANISM: Artificial Sequence
101 <220> FEATURE:
102 <223> OTHER INFORMATION: oligonucleotide 1.8
104 <400> SEQUENCE: 7
105 ggcattgctt ctactagctt ggttggtgc                29
107 <210> SEQ ID NO: 8
108 <211> LENGTH: 20
109 <212> TYPE: DNA
110 <213> ORGANISM: Artificial Sequence
112 <220> FEATURE:
113 <223> OTHER INFORMATION: leader oligonucleotide
115 <400> SEQUENCE: 8
116 taacctgcac tcactacccc                20
118 <210> SEQ ID NO: 9
119 <211> LENGTH: 19
120 <212> TYPE: DNA
121 <213> ORGANISM: Artificial Sequence
123 <220> FEATURE:
124 <223> OTHER INFORMATION: leader oligonucleotide
126 <400> SEQUENCE: 9
127 tcagcatgag ctaaccacg                19
129 <210> SEQ ID NO: 10

```

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/502,359

DATE: 03/07/2005

TIME: 12:50:45

Input Set : A:\033644-003.txt

Output Set: N:\CRF4\03072005\J502359.raw

```

130 <211> LENGTH: 24
131 <212> TYPE: DNA
132 <213> ORGANISM: Artificial Sequence
134 <220> FEATURE:
135 <223> OTHER INFORMATION: leader oligonucleotide
137 <400> SEQUENCE: 10
138 ggctattatg gcccgttggt ttgg 24
140 <210> SEQ ID NO: 11
141 <211> LENGTH: 21
142 <212> TYPE: DNA
143 <213> ORGANISM: Artificial Sequence
145 <220> FEATURE:
146 <223> OTHER INFORMATION: leader oligonucleotide
148 <400> SEQUENCE: 11
149 tagattgaga gcgtgacctt g 21
151 <210> SEQ ID NO: 12
152 <211> LENGTH: 18
153 <212> TYPE: DNA
154 <213> ORGANISM: Artificial Sequence
156 <220> FEATURE:
157 <223> OTHER INFORMATION: leader oligonucleotide
159 <400> SEQUENCE: 12
160 gcgcattgcaa tcacacgc 18
162 <210> SEQ ID NO: 13
163 <211> LENGTH: 20
164 <212> TYPE: DNA
165 <213> ORGANISM: Artificial Sequence
167 <220> FEATURE:
168 <223> OTHER INFORMATION: leader oligonucleotide
170 <400> SEQUENCE: 13
171 tctgggtttct gctaaactcc 20
173 <210> SEQ ID NO: 14
174 <211> LENGTH: 33
175 <212> TYPE: DNA
176 <213> ORGANISM: Artificial Sequence
178 <220> FEATURE:
179 <223> OTHER INFORMATION: region A1 oligonucleotide
181 <400> SEQUENCE: 14
182 gggtcgacga aatatttgct tttctatgaa atc 33
184 <210> SEQ ID NO: 15
185 <211> LENGTH: 31
186 <212> TYPE: DNA
187 <213> ORGANISM: Artificial Sequence
189 <220> FEATURE:
190 <223> OTHER INFORMATION: region A1 oligonucleotide
192 <400> SEQUENCE: 15
193 ccgtcgacat ggcacctctg acagtgcgag c 31
195 <210> SEQ ID NO: 16
196 <211> LENGTH: 37

```

RAW SEQUENCE LISTING

DATE: 03/07/2005

PATENT APPLICATION: US/10/502,359

TIME: 12:50:45

Input Set : A:\033644-003.txt

Output Set: N:\CRF4\03072005\J502359.raw

```

197 <212> TYPE: DNA
198 <213> ORGANISM: Artificial Sequence
200 <220> FEATURE:
201 <223> OTHER INFORMATION: region A2 oligonucleotide
203 <400> SEQUENCE: 16
204 ggggtcgaccg ttcttgagga ctttgacctt aaaattg 37
206 <210> SEQ ID NO: 17
207 <211> LENGTH: 31
208 <212> TYPE: DNA
209 <213> ORGANISM: Artificial Sequence
211 <220> FEATURE:
212 <223> OTHER INFORMATION: region A2 oligonucleotide
214 <400> SEQUENCE: 17
215 ccgtcgacca tcaccaggct taatatcacc c 31
217 <210> SEQ ID NO: 18
218 <211> LENGTH: 31
219 <212> TYPE: DNA
220 <213> ORGANISM: Artificial Sequence
222 <220> FEATURE:
223 <223> OTHER INFORMATION: region A3 oligonucleotide
225 <400> SEQUENCE: 18
226 ggggtcgactt tctggcaaag ttaaggggtgt c 31
228 <210> SEQ ID NO: 19
229 <211> LENGTH: 36
230 <212> TYPE: DNA
231 <213> ORGANISM: Artificial Sequence
233 <220> FEATURE:
234 <223> OTHER INFORMATION: region A3 oligonucleotide
236 <400> SEQUENCE: 19
237 ccgtcgacac gattgtctgg aaccacaaat gttggc 36
239 <210> SEQ ID NO: 20
240 <211> LENGTH: 34
241 <212> TYPE: DNA
242 <213> ORGANISM: Artificial Sequence
244 <220> FEATURE:
245 <223> OTHER INFORMATION: region A4 oligonucleotide
247 <400> SEQUENCE: 20
248 ggggtcgacgc ttttacgatt gtaaactaca agcc 34
250 <210> SEQ ID NO: 21
251 <211> LENGTH: 32
252 <212> TYPE: DNA
253 <213> ORGANISM: Artificial Sequence
255 <220> FEATURE:
256 <223> OTHER INFORMATION: region A4 oligonucleotide
258 <400> SEQUENCE: 21
259 ccgtcgactt caaatgatga accaagtttt gc 32
261 <210> SEQ ID NO: 22
262 <211> LENGTH: 34
263 <212> TYPE: DNA

```

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/502,359

DATE: 03/07/2005

TIME: 12:50:45

Input Set : A:\033644-003.txt

Output Set: N:\CRF4\03072005\J502359.raw

```

264 <213> ORGANISM: Artificial Sequence
266 <220> FEATURE:
267 <223> OTHER INFORMATION: region B oligonucleotide
269 <400> SEQUENCE: 22
270 gggtcgacca aataccaact ggcacacaag atcc 34
272 <210> SEQ ID NO: 23
273 <211> LENGTH: 35
274 <212> TYPE: DNA
275 <213> ORGANISM: Artificial Sequence
277 <220> FEATURE:
278 <223> OTHER INFORMATION: region B oligonucleotide
280 <400> SEQUENCE: 23
281 ccgtcgacaa ttcttcagtg caagcaccta ctgtc 35
283 <210> SEQ ID NO: 24
284 <211> LENGTH: 22
285 <212> TYPE: DNA
286 <213> ORGANISM: Artificial Sequence
288 <220> FEATURE:
289 <223> OTHER INFORMATION: GUS 297 oligonucleotide
291 <400> SEQUENCE: 24
292 gaccacactt tgccgtaatg ag 22
294 <210> SEQ ID NO: 25
295 <211> LENGTH: 18
296 <212> TYPE: DNA
297 <213> ORGANISM: Artificial Sequence
299 <220> FEATURE:
300 <223> OTHER INFORMATION: 19949 oligonucleotide
302 <400> SEQUENCE: 25
303 cttggtggat ctggtgcc 18
305 <210> SEQ ID NO: 26
306 <211> LENGTH: 10
307 <212> TYPE: DNA
308 <213> ORGANISM: Artificial Sequence
310 <220> FEATURE:
311 <223> OTHER INFORMATION: GUS oligonucleotide
313 <400> SEQUENCE: 26
314 acgtcgacga 10

```

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/502,359

DATE: 03/07/2005

TIME: 12:50:46

Input Set : A:\033644-003.txt

Output Set: N:\CRF4\03072005\J502359.raw